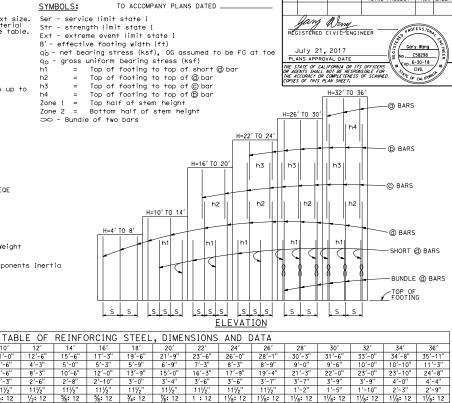
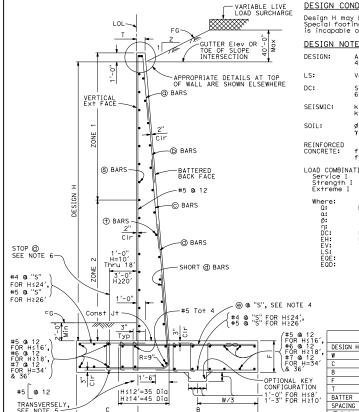
SYMBOLS:

h2

h4

Zone 1





DESIGN CONDITIONS:

Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in the table.

DESIGN NOTES:

AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments

Varied surcharge on level ground surface

Stem Architectural Treatment of thickness up to 6" of concrete (75 psf) considered

SEISMIC:

 $\phi = 34^{\circ}$ $\gamma = 120 \text{ pcf}$

Ext: B', qo

f'c = 3,600 psify = 60,000 psi

LOAD COMBINATIONS AND LIMIT STATES:
Service I 0 = 1.00DC+1.00EV+1.00EH+1.00LS
Strength I 0 = aDC+DEV+nEH+1.75LS
Extreme I 0 = 1.00DC+1.00EV+1.00EH+1.00E0D+1.00EQE

Force Effects
1.25 or 0.90, Whichever Controls Design
1.35 or 1.00, Whichever Controls Design
1.50 or 0.90, Whichever Controls Design
Dead Load of Structure Components
Horizontal Earth Fill Pressure
Vertical Earth Pressure from Earth Fill Weight
Live Load Surcharge
Salsmic Forth Pressure

Seismic Farth Pressure

Soil and Structural and Nonstructural Components Inertia

7'-6' 9'-6 2'-6" 3'-3" 4'-3" 5'-0" 5'-0" 6'-3" 8'-3" 10'-6" 7'-6" 1'-6' 1'-6 2'-3" 2'-3" 1½: 12 111/2 111/2" 111/2" 111/2 111/2" 111/2" BATTER 1/2: 12 1/2: 12 1/2: 12 ½: 12 **%:** 12 ¾: 12 **%**: 12 11/8: 12 11/8: 12 1/8: 12 SPACING "S 16" 12" 10" 6" 6" 10' @ BARS #5 #5 #5 (b) BARS #5 #5 #5 #5 #5 #7 #7 #7 © BARS @ BARS #6 #6 #6 #7 #8 #8 #8 #8 #9 #9 #9 #9 #10 #11 #11 #11 #11 @ BARS #5 #5 #6 #6 #7 #8 #9 #10 #10 #10 #11 #11 #11 #11 #11 #11 6'-4" 7'-6" 11'-6" 10'-3' 12'-3" 12'-6" 17'-3" 15'-9' h2 12'-8" 15'-6" 17'-0" 16'-6' 18'-0' 17'-6' 17'-4' 14'-10" 16'-4" h3 18'-9" 21'-3" 21'-3" 22'-4" 18'-0" 18'-6" 19'-6" 22'-8" 26'-3" 27'-4" h4 28'-6" No. of Toe Stirrups 0 0 Q. No. of Heel Stirrups 10 10 11 11 11 ZONE 1 (S) BARS #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 18 | #5 @ 12 | #5 @ 12 | #5 @ 12 | #5 @ 12 | #5 @ 12 #5 @ 12 | #6 @ 12 | #6 @ 12 | #6 @ 10 #6 @ 10 ZONE 2 S BARS ZONE 1 + BARS #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 18 #5 @ 12 #5 @ 12 #5 @ 12 #5 @ 12 #6 @ 12 #6 @ 12 #6 @ 12 #7 @ 12 #7 @ 12 #7 @ 12 #7 @ 12 #7 @ 12 #7 @ 12 #7 @ 12 #7 @ 10 #7 @ 10 #7 @ 10 #4 @ 18 ZONE 2 T BARS #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 18 #4 @ 12 #4 @ 12 #4 @ 12 #4 @ 12 #4 @ 12 #4 @ 12 #4 @ 12 #5 @ 12 #5 @ 12 #5 @ 12 #6 @ 12 #6 @ 12 #6 @ 12 Ser: B', q'o 4.0, 0.9 5.5, 1.0 9.3, 1.0 10.9, 1.3 12.3, 1.5 14.8, 1.9 16.6, 2.1 18.7, 2.4 20.6, 2.7 22.3, 3.0 24.2, 3.3 26.1, 3.5 28.2, 3.9 29.6, 4.0 31.1, 4.2 32.7, 4.4 34.1, 4.6 2.2, 2.2 3.5, 2.2 5.1, 2.3 6.3, 2.6 7.6, 2.7 12.9, 3.1 14.3, 3.6 16.5, 3.9 19.4, 4.5 20.7, 4.8 22.5, 5.2 24.3, 5.6 26.2, 6.0 27.5, 6.3 28.8, 6.6 30.3, 6.9 31.8, 7.2 Str: B', qo

2.3, 3.4 2.7, 4.4 3.6, 5.0 3.8, 6.5 4.5, 7.0 7.0, 6.1 7.6, 6.9 9.3, 7.0 11.0, 7.1 11.8, 7.6 14.1, 7.4 15.6, 7.7 17.1, 8.0 17.2, 8.7 18.1, 9.0 19.0, 9.4 19.4, 10.0

TYPICAL SECTION NOTES:

1. For details not shown and drainage notes see (B3-5)

2. For wall stem joint details see BO-3. At @ and short @ bars:

H < 6', no splices are allowed within 1'-8" above the top of footing. H > 6', no splices are allowed within H/4 above the top of footing.

4. Bundle @ bars for H ≥ 26'.

Hook stirrups around & space with alternating transverse reinforcement at 2 x "S". For required number of toe or heel stirrup rows, see table. The first stirrups are placed adjacent to the stem as shown.

6. Extend (d) bars to end of toe for H=4' to 8'.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

RETAINING WALL TYPE 1 (CASE 2) RSP B3-1B DATED JULY 21, 2017 SUPERSEDES STANDARD PLAN B3-1B
DATED OCTOBER 30, 2015 - PAGE 287 OF THE STANDARD PLANS BOOK DATED 2015.

NO SCALE

REVISED STANDARD PLAN RSP B3-1B

POST MILES TOTAL PROJECT

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